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4. TITLE AND SUBTITLE  (FY92/93 HBCU/MI) CENTER FOR SCIENTIFIC VISUALIZATION	5. FUNDING NUMBERS	
6. AUTHOR(5)  MS GLORIA BROWN-SIMMONS AND MS DIANNE LOVE	4276/AS F49620-93-1-0600	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) CENTRAL STATE UNIVERSITY ACADEMIC AFFAIRS WILBERFORCE OH 45384	8. PERFORMING ORGANIZATION REPORT NUMBER	
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12a. DISTRIBUTION A FALLABILITY STATEMENT

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13. ABSTRACT (Maximum 200 words)

11. SUPPLEMENTARY NOTES

In FY94, Central State University established a Center for Scientific Visualization (CSV) using state-of-the-art technology in an interdisciplinary approach to solving problems in research.

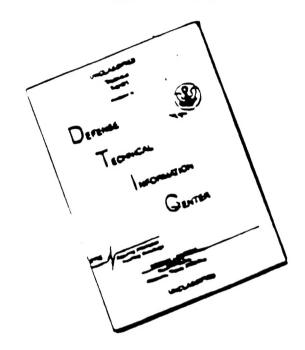
The primary objective of the CSV are as follows: 1) provide an environment for multiple disciplines to work together at science teams: 2) support undergraduate and faculty research projects requiring advanced visualization techniques 30 serve as a testbed to develop new visualization mechanisms to a id in teaching difficult mathematics, scientific and engineering concepts 4) support undergraduate courses which prepare students to utilize advanced computer graphic, image processing and visualization techniques in research environment.

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#### CENTRAL STATE UNIVERSITY • Wilberforce, OH 45384

Vice President for Academic Affairs • 513/376-6431

### PROGRESS/FINAL REPORT U. S. AIR FORCE INFRASTRUCTURE EQUIPMENT REQUEST

In FY '94, Central State University established a Center for Scientific Visualization (CSV) using state-of-the-art technology in an interdisciplinary approach to solving problems in research.

The primary objectives of the CSV are as follows: 1) provide an environment for multiple disciplines to work together as science teams; 2) support undergraduate and faculty research projects requiring advanced visualization techniques; 3) serve as a testbed to develop new visualization mechanisms to aid in teaching difficult mathematics, scientific and engineereing concepts; 4) support undergraduate courses which prepare students to utilize advanced computer graphics, image processing and visualization techniques in a research environment.

The Center was built upon the existing expertise and resources of the manufacturing engineering, science, mathematics, computer science and art departments.

Central State University requested and received funding from the Department of the Air Force, Office of Scientific Research to assist in developing the infrastructure for the Center.

Attachment A lists the instrumentation that was purchased and is being used to achieve the objectives of the programs in the Center.

As a part of its commitment to establish and maintain the Center for Scientific Visualization, the University provided, through its capital improvements budget, funds to renovate space to house the Center. In addition, University funds were used to purchase additional equipment. The University will continue to provide the resources for the maintenance and upkeep of the facility.

During the developmental stages of the CSV and the proposal to the Department of the Air Force for infrastructural development, Ms. Gloria Brown-Simmons was the Director for the Center and Principal Investigator for the project. Pursuant to the award and the completion of the project, i.e., purchasing equipment and supervising its installation, Ms. Brown-Simmons left Central State to assume another positon. Pursuant to her departure, in June 1994, Ms. Dianne Love, Assistant Professor in the International Center for Water Resources Management was appointed as Director of the Center for CSV and Project Director for the infrastructure development projects.

#### U.S. AIR FORCE EQUIPMENT PURCHASE REPORT

VENDOR	DESCRIPTION	AMOUNT
PARITY SYSTEMS	CD-ROM DRIVE	\$626.00
MAC BARGAINS	MICROTEK SCANNER IIHR	\$1,029
APPLE COMPUTER	POWER MAC 8100/100AV 20 UNITS PLUS SOFTWARE	\$117,079
MODERN OFFICE METHODS	TEKTRONIX PRINTER	\$7,249
WAVEFRONT TECHNOLOGY	WAVEFRONT SOFTWARE	\$25,000
SILICON GRAPHICS	SEE ATTACHED	\$108,258
SILICON GRAPHICS	SEE ATTACHED	\$48,467
TOTAL		\$307,082

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CENTRAL STATE UNIVERSIT

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/ENDOR CONTAMPUNTAIN View, CA

Mark Kelley J.S.U. BUYER

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c/o Receiving

1400 Brush Row Rd. Wilberforce, OH 45384

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001	D-42602	Onyx VTX Graphics Des 2x100 MHz R4400, 64MB	memory, 1 IMB		
			l ea \$	71,238.00 \$ 7	1,238.00
002	SD8-2	2GB SCSI-2 FAST/WIDE and ONYX systems	Differential System l ea	Disk for all CH 5,696.00	ALLENGE 5,696.00
003	P8-T4V2	5GB 8mm Internal Driv	e for all CHALLENGE l ea		4,745.00
004	P8-CDROM	680MB CD FOR all CHAL	LENGE and ONYX systell ea	ems 945.00	945.00
ე05	SC4-IDO-5.	l IRIS Development Opt	ion for IRIX 5.1 1 ea	876.00	876.00
006	SC4-NFS-5.	l Network File System	Software for IRIX 5 l ea	446.25	446.25
007	CS-SWCARE_ DEV	Support price for sof	tware options for s	0.00	0.00
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EQUAL EMPLOYMENT OPPORTUNITY. The Supplier in bidding and/or filling a purchase order agrees not to discriminate against any employee or applicant for employment respect to higher tenure, terms, conditions, or privileges of employment or any matter directly or indirectly related to employment, because of race, color, sex, religion, national origin, or ancestry. The Supplier further agrees that every subcontract or order given for the supplying of this order will contain a provision requiring non-escrimination in employment, as herein specified. This convenant is required pursuant to Executive Order 11246, Executive Code of Ohio and policy of Cantral State University and any breach thereof may be regarded as a material breach of the contract or purchase order.

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WILBERFORCE, OHIO 45384

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ENDOR CONTACTMountain View, CA 94043 S.U. BUYER CONFERENCE ORDER

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08	MO4-CD	CD_ROM Update Media Option for ASD-For Support Only  l ea \$ 0.00 \$ 0.00
009	DK-C1-00	Destination Kit for L Series, ONYX Deskside, 110V 1 ea 0.00 0.00
)10	D-M19A	19-inch MultiSync Tilt Swivel Monitor for ELAN, VGXT, Sky Writer Personal IRIS, and ONYX VTX
		1 ea 0.00 0.00
011	FTO-64NC	FIrst 64MB High Density Memory for all CHALLENGE and ONYX system:  1 ea 0.00 0.00
012	SC4-W4D-5.]	IRIX 5.1 System Software and Manuals for Workstations, CD-ROM Media 1 ea 0.00 0.00
)13	WB-TW050EX	INDIGO2 Extreme Graphics, 100/50 MHz, 32MB Memory, 1GB System Disk, 19" MOnitor 2 ea 21,700.00 43,400.00

Per Quote # CWC941495, IUC Contract. #UN93-005 Page 2 of 4

PAGE TOTAL 43,400.00 GRAND TOTAL

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016	CS-SWCARE DEV	E-Support price for software options for systems with IDO. Full/ Basic/IRIXCare is req'd 2 ea 0.00 0.00
017	RMA PACKE	ET Returned Material Authorization Packet
210		2 ea 0.00 0.00
		Right TO Use Update Media Option, fee to cover taxable value for RTU in some states 2 ea 0.00 0.00
019	W24B-5032	INDY, 100/50 MHz R4000SC 24-Bit Color 2007
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Per Quote # CWC941495, IUC Contract #UN93-005 Page 3 of 4

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021	SR4-NFS-5	.l Network File System Software Right To Use License for IRIX 5.1 2 ea 371.25 742.50
022	D-M17	16" (17" Tube) Multi-Scan Tilt Swivel, Color Stereo Monitor 2 ea 0.00 0.00
023	M04-RTU	Right To Use Update Media Option, fee to cover tasable value for RTU in some states 2 ea 0.00 0.00
024	CS-SWCAREDEV	Support price for software options for systems with IDO. Full/Basic/IRIX Care is req'd 2 ea 0.00 0.00
025		All systems include O/S, Explorer, Insight, Media Mosaic, Show-case and WorkSpace lea 0.00 0.00
025		Warranty for these systems to be ordered on a separate P.O. l ea 0.00 0.00
		PAGE 1,942.50

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